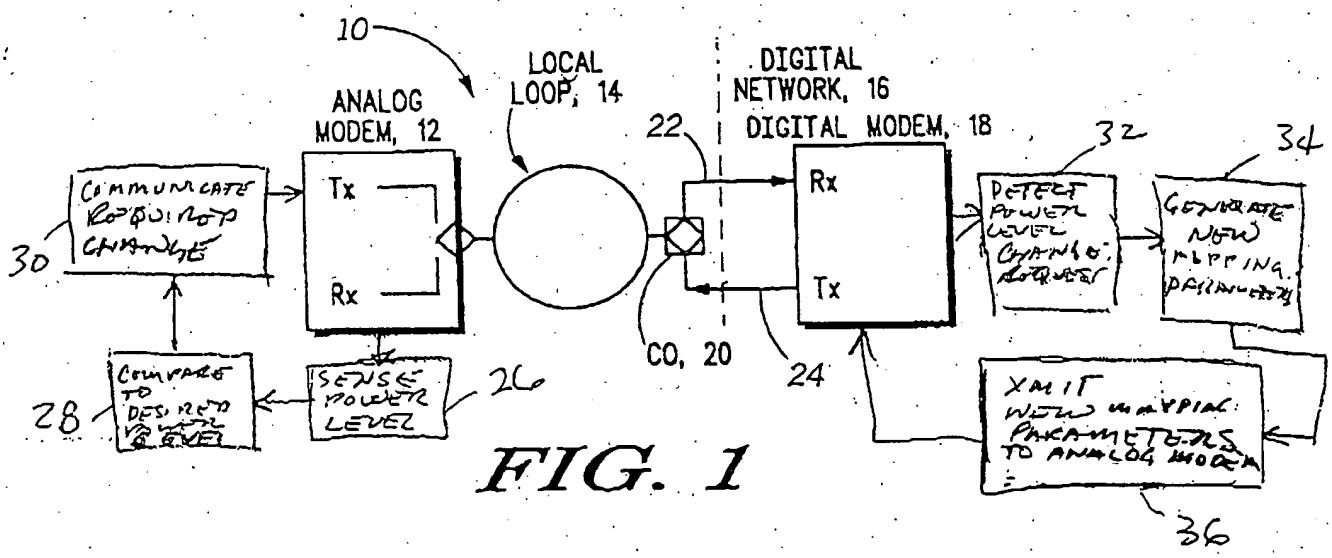
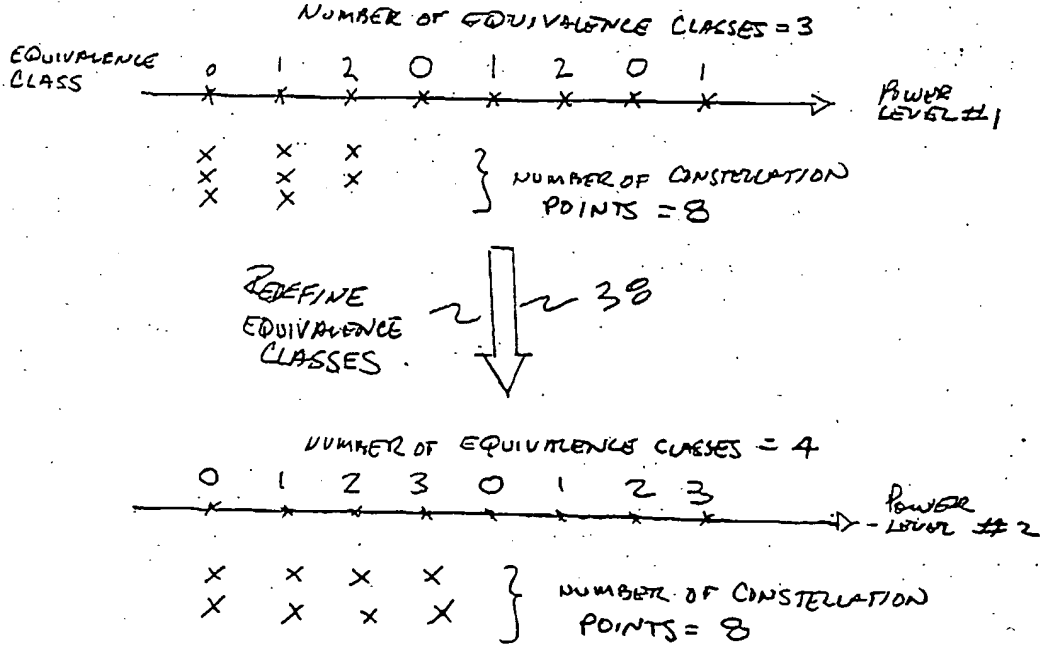


FIG. 1



POWER LEVEL #2 > POWER LEVEL #1

POWER LEVEL ∝ NUMBER OF EQUIVALENCE CLASSES

FIG. 2

CXO 20003

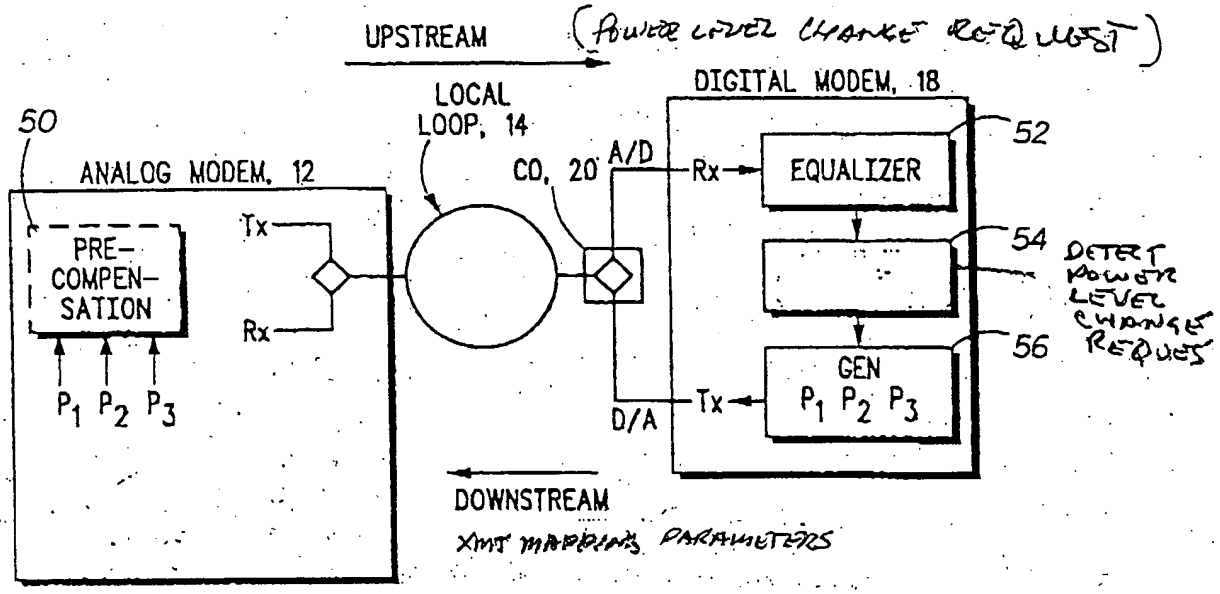


FIG. 3

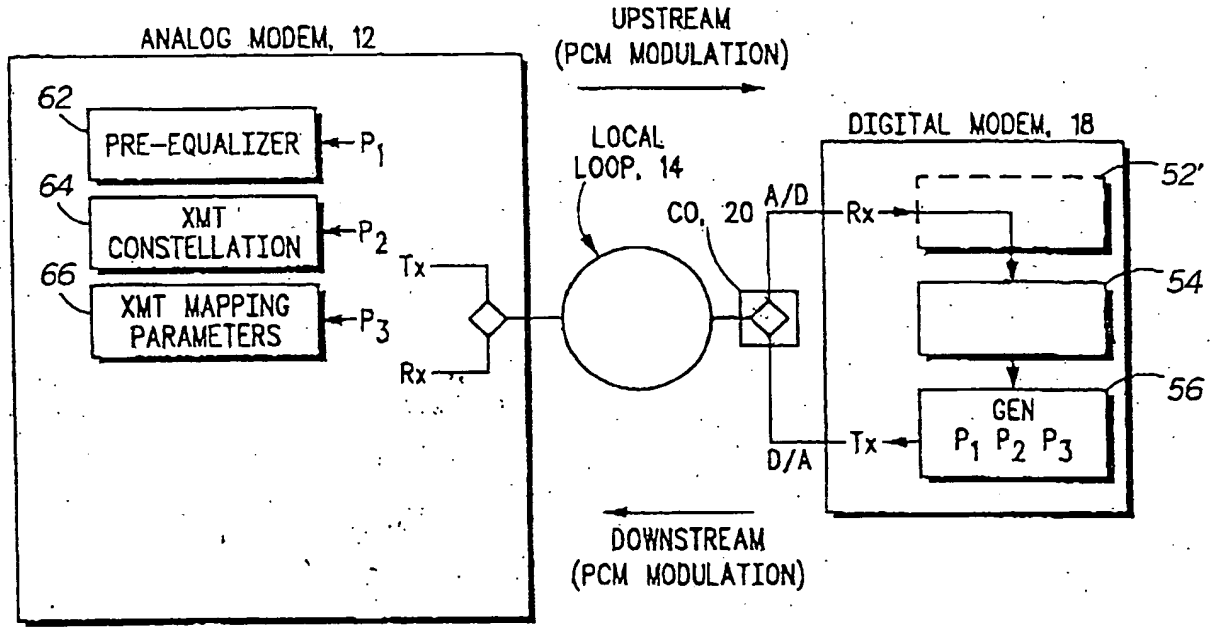


FIG. 4

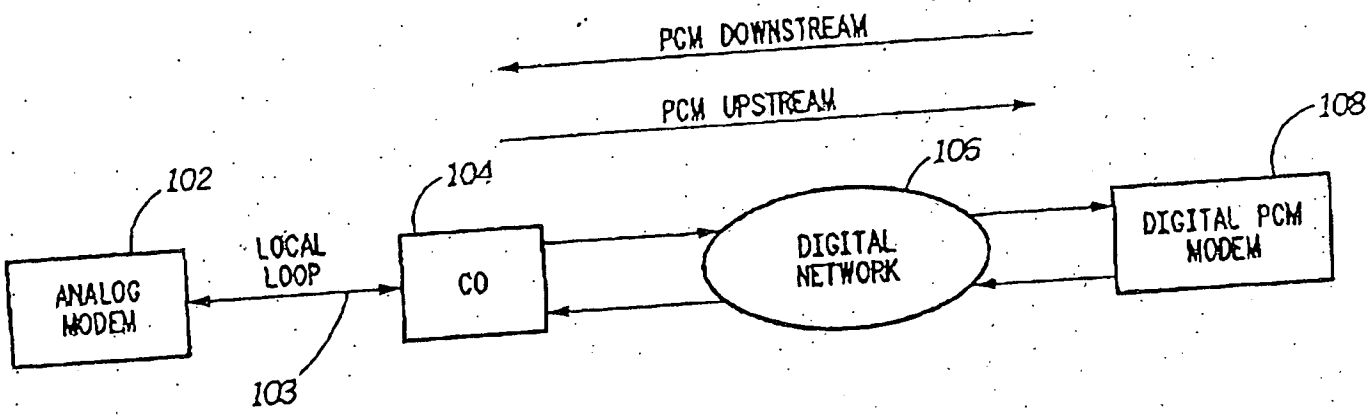

PCM DOWNSTREAM
PCM UPSTREAM
102
104
105
108
ANALOG MODEM
LOCAL LOOP
CO
DIGITAL NETWORK
DIGITAL PCM MODEM
103
100
PRIOR ART

FIG. 5

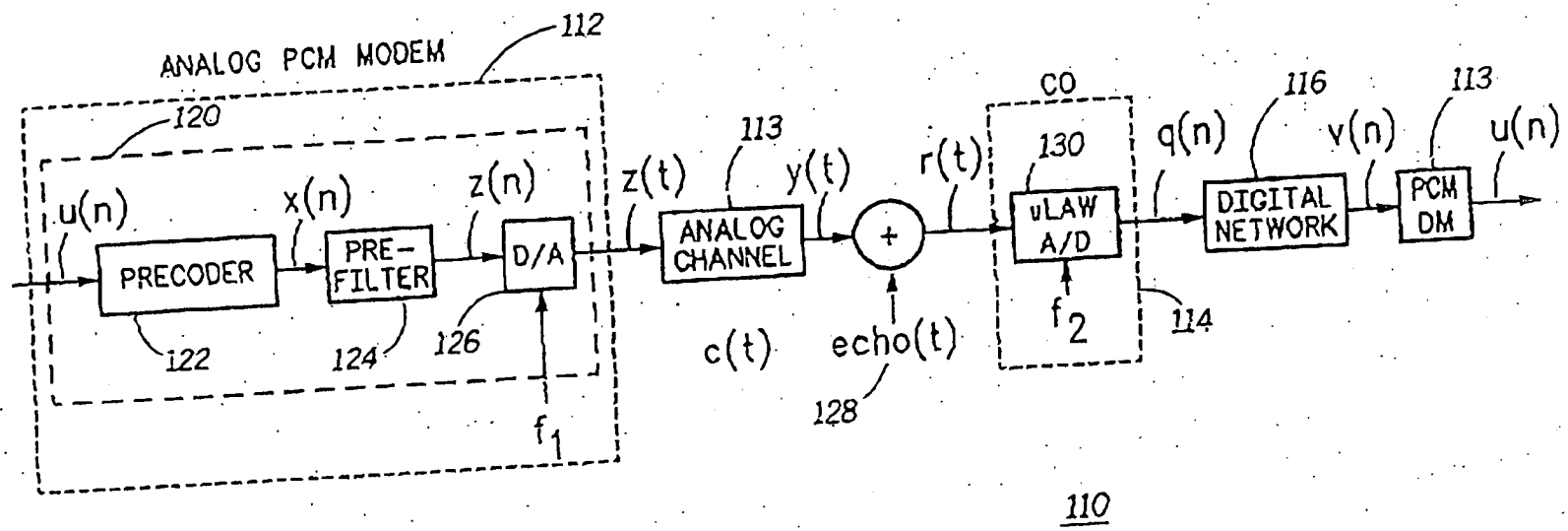


FIG. 6

CXO 20003

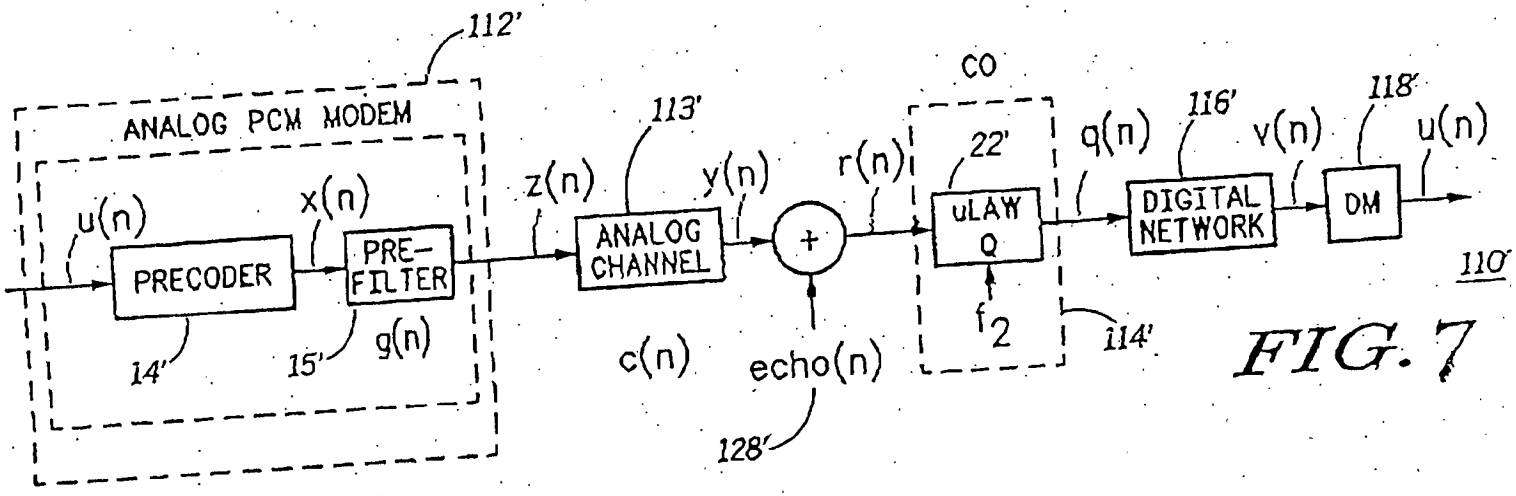


FIG. 7

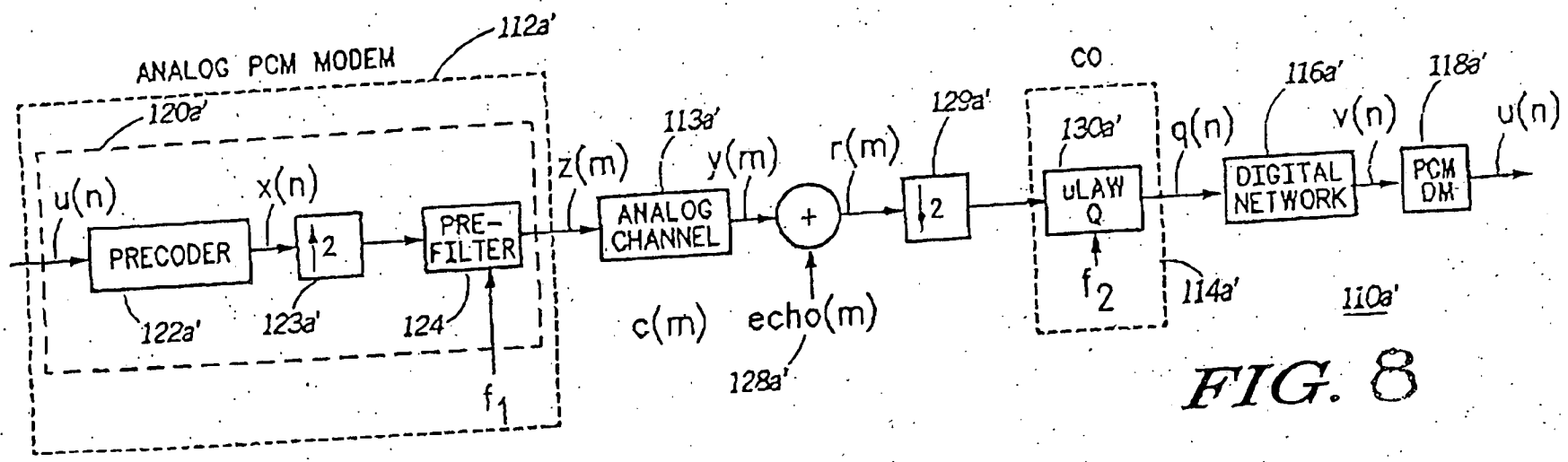
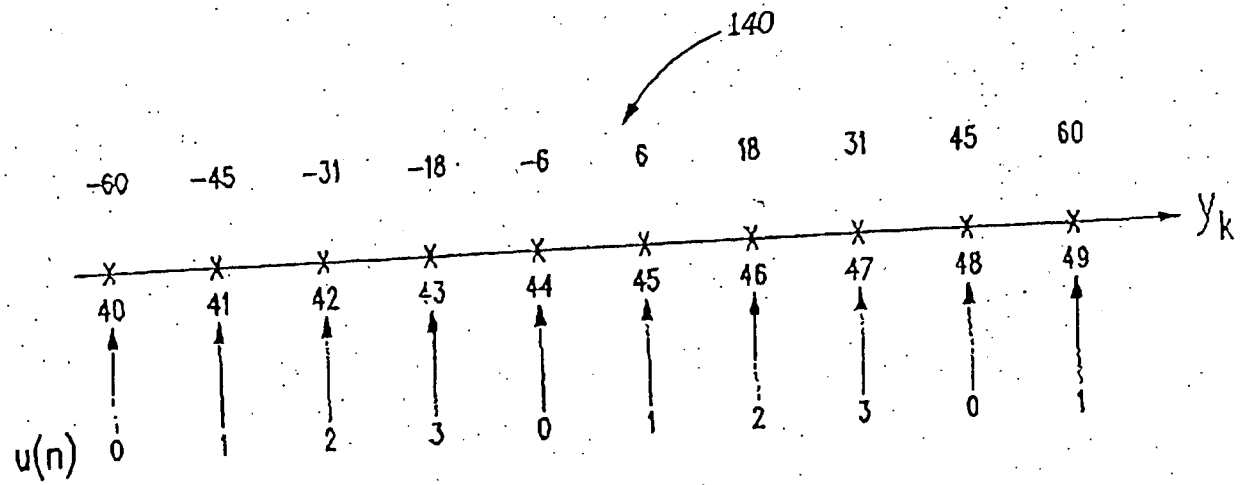


FIG. 8

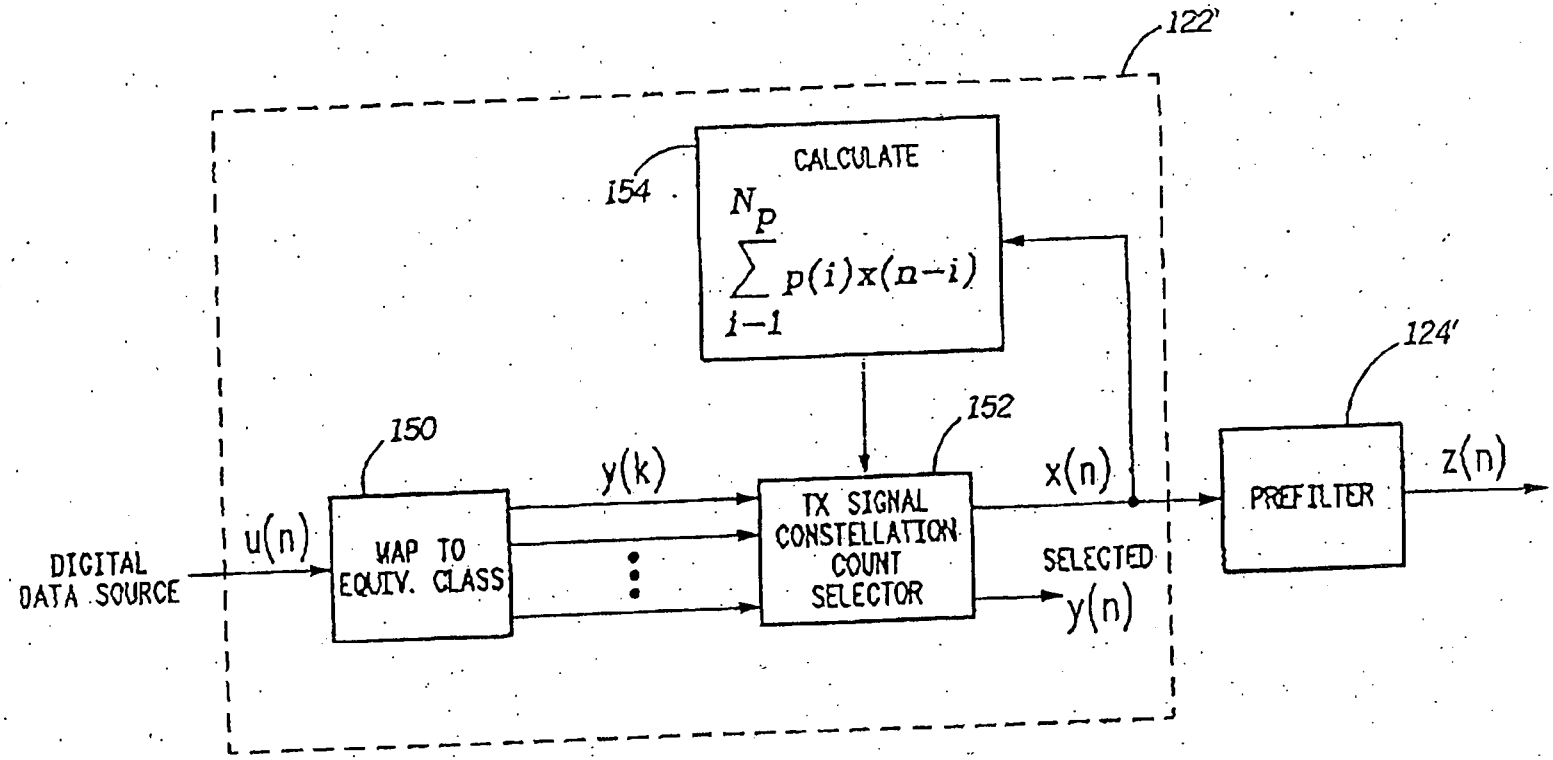
CXD 2003



HOW TO CHOOSE EQUIVALENCE CLASS FROM CONSTELLATIONS.
(ASSUME u(n) CAN YE 0,1,2, OR 3 AND y_k CAN BE -60, -45, -31, 60

FIG. 9

CX02003



BLOCK DIAGRAM HOW PRECODER AND PREFILTER WORKS

FIG. 10

CIP 2003

Sandisk Ireland

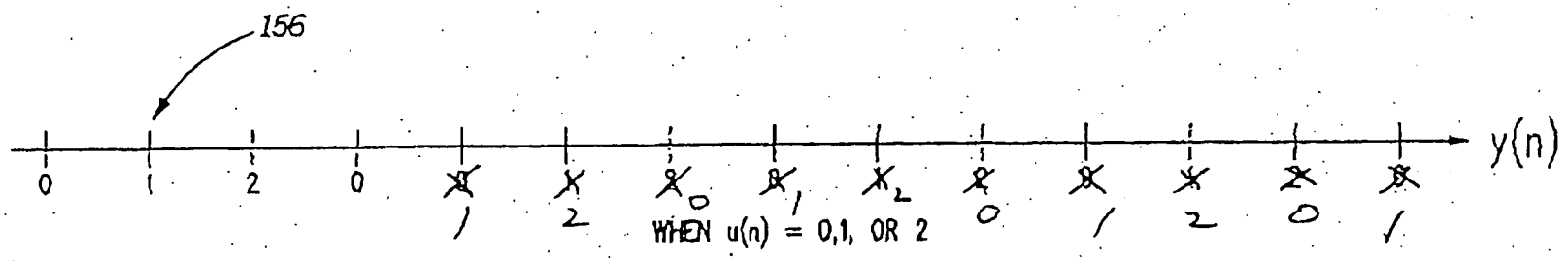


FIG. 11A

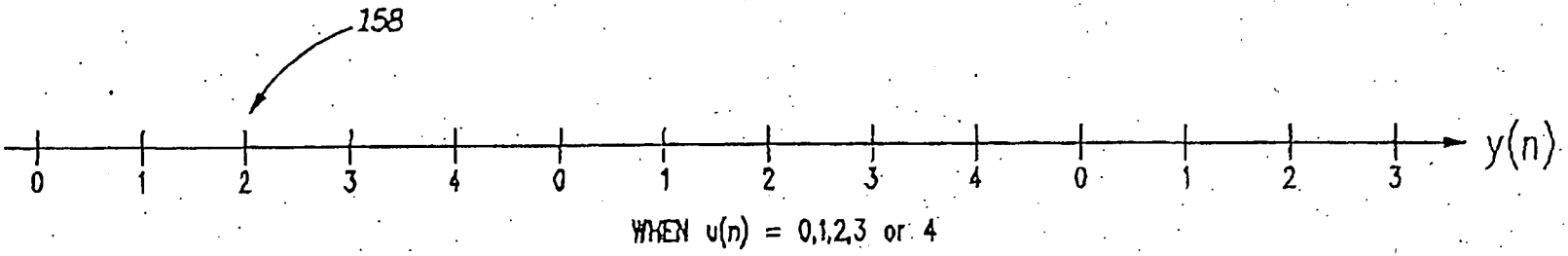


FIG. 11B

EXO 2003